

5040



PCT10

## RAW SEQUENCE LISTING

DATE: 02/13/2002

PATENT APPLICATION: US/10/031,915

TIME: 07:37:08

Input Set : A:\PF-0722 PCT (sequence listing).txt

Output Set: N:\CRF3\02132002\J031915.raw

P.S

ENTERED

2 <110> APPLICANT: INCYTE GENOMICS, INC.  
 3 HILLMAN, Jennifer L.  
 4 LAL, Preeti  
 5 TANG, Y. Tom  
 6 YUE, Henry  
 7 AU-YOUNG, Janice  
 8 BANDMAN, Olga  
 9 AZIMZAI, Yalda  
 10 YANG, Junming  
 11 LU, Dyung Aina M.  
 12 BAUGHN, Mariah R.  
 13 PATTERSON, Chandra  
 14 SHAH, Purvi  
 W--> 15 <120> TITLE OF INVENTION: CELL CYCLE AND PROLIFERATION PROTEINS  
 W--> 16 <130> FILE REFERENCE: PF-0722 PCT  
 W--> 17 <140> CURRENT APPLICATION NUMBER: To Be Assigned  
 C--> 18 <141> CURRENT FILING DATE: 2002-01-18  
 19 <150> PRIOR APPLICATION NUMBER: 60/145,075; 60/153,129; 60/164,647  
 W--> 20 <151> PRIOR FILING DATE: 1999-07-21; 1999-09-08; 1999-11-10  
 W--> 21 <160> NUMBER OF SEQ ID: 108  
 22 <170> SOFTWARE: PERL Program  
 W--> 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 145  
 25 <212> TYPE: PRT  
 26 <213> ORGANISM: Homo sapiens  
 W--> 27 <220> FEATURE:  
 28 <221> NAME/KEY: misc\_feature  
 29 <223> OTHER INFORMATION: Incyte ID No: 116462CD1  
 W--> 30 <400> SEQUENCE: 1  
 31 Met Asn Gly Arg Val Asp Tyr Leu Val Thr Glu Glu Glu Ile Asn  
 32 1 5 10 15  
 33 Leu Thr Arg Gly Pro Ser Gly Leu Gly Phe Asn Ile Val Gly Gly  
 34 20 25 30  
 35 Thr Asp Gln Gln Tyr Val Ser Asn Asp Ser Gly Ile Tyr Val Ser  
 36 35 40 45  
 37 Arg Ile Lys Glu Asn Gly Ala Ala Ala Leu Asp Gly Arg Leu Gln  
 38 50 55 60  
 39 Glu Gly Asp Lys Ile Leu Ser Val Asn Gly Gln Asp Leu Lys Asn  
 40 65 70 75  
 41 Leu Leu His Gln Asp Ala Val Asp Leu Phe Arg Asn Ala Gly Tyr  
 42 80 85 90  
 43 Ala Val Ser Leu Arg Val Gln His Arg Leu Gln Val Gln Asn Gly  
 44 95 100 105

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```

45 Pro Ile Gly His Arg Gly Glu Gly Asp Pro Ser Gly Ile Pro Ile
46                               110                115                120
47 Phe Met Val Leu Val Pro Val Phe Ala Leu Thr Met Val Ala Ala
48                               125                130                135
49 Trp Ala Phe Met Arg Tyr Arg Gln Gln Leu
50                               140                145
51 <210> SEQ ID NO: 2
52 <211> LENGTH: 340
53 <212> TYPE: PRT
54 <213> ORGANISM: Homo sapiens
W--> 55 <220> FEATURE:
56 <221> NAME/KEY: misc_feature
57 <223> OTHER INFORMATION: Incyte ID No: 1210462CD1
W--> 58 <400> SEQUENCE: 2
59 Met Leu Thr Gln Leu Lys Ala Lys Ser Glu Gly Lys Leu Ala Lys
60 1 5 10 15
61 Gln Ile Cys Lys Val Val Leu Asp His Phe Glu Lys Gln Tyr Ser
62 20 25 30
63 Lys Glu Leu Gly Asp Ala Trp Asn Thr Val Arg Glu Ile Leu Thr
64 35 40 45
65 Ser Pro Ser Cys Trp Gln Tyr Ala Val Leu Leu Asn Arg Phe Asn
66 50 55 60
67 Tyr Pro Phe Glu Leu Glu Lys Asp Leu His Leu Lys Gly Tyr His
68 65 70 75
69 Thr Leu Ser Gln Gly Ser Leu Pro Asn Tyr Pro Lys Ser Val Lys
70 80 85 90
71 Cys Tyr Leu Ser Arg Thr Pro Gly Arg Ile Pro Ser Glu Arg His
72 95 100 105
73 Gln Ile Gly Asn Leu Lys Lys Tyr Tyr Leu Leu Asn Ala Ala Ser
74 110 115 120
75 Leu Leu Pro Val Leu Ala Leu Glu Leu Arg Asp Gly Glu Lys Val
76 125 130 135
77 Leu Asp Leu Cys Ala Ala Pro Gly Gly Lys Ser Ile Ala Leu Leu
78 140 145 150
79 Gln Cys Ala Cys Pro Gly Tyr Leu His Cys Asn Glu Tyr Asp Ser
80 155 160 165
81 Leu Arg Leu Arg Trp Leu Arg Gln Thr Leu Glu Ser Phe Ile Pro
82 170 175 180
83 Gln Pro Leu Ile Asn Val Ile Lys Val Ser Glu Leu Asp Gly Arg
84 185 190 195
85 Lys Met Gly Asp Ala Gln Pro Glu Met Phe Asp Lys Val Leu Val
86 200 205 210
87 Asp Ala Pro Cys Ser Asn Asp Arg Ser Trp Leu Phe Ser Ser Asp
88 215 220 225
89 Ser Gln Lys Ala Ser Cys Arg Ile Ser Gln Arg Arg Asn Leu Pro
90 230 235 240
91 Leu Leu Gln Ile Glu Leu Leu Arg Ser Ala Ile Lys Ala Leu Arg
92 245 250 255
93 Pro Gly Gly Ile Leu Val Tyr Ser Thr Cys Thr Leu Ser Lys Ala

```

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```

94          260          265          270
95 Glu Asn Gln Asp Val Ile Ser Glu Ile Leu Asn Ser His Gly Asn
96          275          280          285
97 Ile Met Pro Met Asp Ile Lys Gly Ile Ala Arg Thr Cys Ser His
98          290          295          300
99 Asp Phe Thr Phe Ala Pro Thr Gly Gln Glu Cys Gly Leu Leu Val
100         305          310          315
101 Ile Pro Asp Lys Gly Lys Ala Trp Gly Pro Met Tyr Val Ala Lys
102         320          325          330
103 Leu Lys Lys Ser Trp Ser Thr Gly Lys Trp
104         335          340
105 <210> SEQ ID NO: 3
106 <211> LENGTH: 418
107 <212> TYPE: PRT
108 <213> ORGANISM: Homo sapiens
W--> 109 <220> FEATURE:
110 <221> NAME/KEY: misc_feature
111 <223> OTHER INFORMATION: Incyte ID No: 1305252CD1
W--> 112 <400> SEQUENCE: 3
113 Met Leu Tyr Leu Glu Asp Tyr Leu Glu Met Ile Glu Gln Leu Pro
114 1          5          10          15
115 Met Asp Leu Arg Asp Arg Phe Thr Glu Met Arg Glu Met Asp Leu
116          20          25          30
117 Gln Val Gln Asn Ala Met Asp Gln Leu Glu Gln Arg Val Ser Glu
118          35          40          45
119 Phe Phe Met Asn Ala Lys Lys Asn Lys Pro Glu Trp Arg Glu Glu
120          50          55          60
121 Gln Met Ala Ser Ile Lys Lys Asp Tyr Tyr Lys Ala Leu Glu Asp
122          65          70          75
123 Ala Asp Glu Lys Val Gln Leu Ala Asn Gln Ile Tyr Asp Leu Val
124          80          85          90
125 Asp Arg His Leu Arg Lys Leu Asp Gln Glu Leu Ala Lys Phe Lys
126          95          100          105
127 Met Glu Leu Glu Ala Asp Asn Ala Gly Ile Thr Glu Ile Leu Glu
128          110          115          120
129 Arg Arg Ser Leu Glu Leu Asp Thr Pro Ser Gln Pro Val Asn Asn
130          125          130          135
131 His His Ala His Ser His Thr Pro Val Glu Lys Arg Lys Tyr Asn
132          140          145          150
133 Pro Thr Ser His His Thr Thr Thr Asp His Ile Pro Glu Lys Lys
134          155          160          165
135 Phe Lys Ser Glu Ala Leu Leu Ser Thr Leu Thr Ser Asp Ala Ser
136          170          175          180
137 Lys Glu Asn Thr Leu Gly Cys Arg Asn Asn Ser Thr Ala Ser
138          185          190          195
139 Ser Asn Asn Ala Tyr Asn Val Asn Ser Ser Gln Pro Leu Gly Ser
140          200          205          210
141 Tyr Asn Ile Gly Ser Leu Ser Ser Gly Thr Gly Ala Gly Ala Ile
142          215          220          225

```

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```

143 Thr Met Ala Ala Ala Gln Ala Val Gln Ala Thr Ala Gln Met Lys
144                230                235                240
145 Glu Gly Arg Arg Thr Ser Ser Leu Lys Ala Ser Tyr Glu Ala Phe
146                245                250                255
147 Lys Asn Asn Asp Phe Gln Leu Gly Lys Glu Phe Ser Met Ala Arg
148                260                265                270
149 Glu Thr Val Gly Tyr Ser Ser Ser Ser Ala Leu Met Thr Thr Leu
150                275                280                285
151 Thr Gln Asn Ala Ser Ser Ser Ala Ala Asp Ser Arg Ser Gly Arg
152                290                295                300
153 Lys Ser Lys Asn Asn Asn Lys Ser Ser Ser Gln Gln Ser Ser Ser
154                305                310                315
155 Ser Ser Ser Ser Ser Ser Leu Ser Ser Cys Ser Ser Ser Ser Thr
156                320                325                330
157 Val Val Gln Glu Ile Ser Gln Gln Thr Thr Val Val Pro Glu Ser
158                335                340                345
159 Asp Ser Asn Ser Gln Val Asp Trp Thr Tyr Asp Pro Asn Glu Pro
160                350                355                360
161 Arg Tyr Cys Ile Cys Asn Gln Val Ser Tyr Gly Glu Met Val Gly
162                365                370                375
163 Cys Asp Asn Gln Asp Cys Pro Ile Glu Trp Phe His Tyr Gly Cys
164                380                385                390
165 Val Gly Leu Thr Glu Ala Pro Lys Gly Lys Trp Tyr Cys Pro Gln
166                395                400                405
167 Cys Thr Ala Ala Met Lys Arg Arg Gly Ser Arg His Lys
168                410                415

```

169 &lt;210&gt; SEQ ID NO: 4

170 &lt;211&gt; LENGTH: 297

171 &lt;212&gt; TYPE: PRT

172 &lt;213&gt; ORGANISM: Homo sapiens

W--&gt; 173 &lt;220&gt; FEATURE:

174 &lt;221&gt; NAME/KEY: misc\_feature

175 &lt;223&gt; OTHER INFORMATION: Incyte ID No: 1416289CD1

W--&gt; 176 &lt;400&gt; SEQUENCE: 4

```

177 Met Ala Tyr Asn Val Ile Ile Ile Tyr Phe Asn Phe Arg Cys Leu
178 1                5                10                15
179 Glu Trp Leu Leu Asn Asn Leu Met Thr His Gln Asn Val Glu Leu
180                20                25                30
181 Phe Lys Glu Leu Ser Ile Asn Val Met Lys Gln Leu Ile Gly Ser
182                35                40                45
183 Ser Asn Leu Phe Val Met Gln Val Glu Met Asp Ile Tyr Thr Ala
184                50                55                60
185 Leu Lys Lys Trp Met Phe Leu Gln Leu Val Pro Ser Trp Asn Gly
186                65                70                75
187 Ser Leu Lys Gln Leu Leu Thr Glu Thr Asp Val Trp Phe Ser Lys
188                80                85                90
189 Gln Arg Lys Asp Phe Glu Gly Met Ala Phe Leu Glu Thr Glu Gln
190                95                100               105
191 Gly Lys Pro Phe Val Ser Val Phe Arg His Leu Arg Leu Gln Tyr

```

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```

192          110          115          120
193 Ile Ile Ser Asp Leu Ala Ser Ala Arg Ile Ile Glu Gln Asp Ala
194          125          130          135
195 Val Val Pro Ser Glu Trp Leu Ser Ser Val Tyr Lys Gln Gln Trp
196          140          145          150
197 Phe Ala Met Leu Arg Ala Glu Gln Asp Ser Glu Val Gly Pro Gln
198          155          160          165
199 Glu Ile Asn Lys Glu Glu Leu Glu Gly Asn Ser Met Arg Cys Gly
200          170          175          180
201 Arg Lys Leu Ala Lys Asp Gly Glu Tyr Cys Trp Arg Trp Thr Gly
202          185          190          195
203 Phe Asn Phe Gly Phe Asp Leu Leu Val Thr Tyr Thr Asn Arg Tyr
204          200          205          210
205 Ile Ile Phe Lys Arg Asn Thr Leu Asn Gln Pro Cys Ser Gly Ser
206          215          220          225
207 Val Ser Leu Gln Pro Arg Arg Ser Ile Ala Phe Arg Leu Arg Leu
208          230          235          240
209 Ala Ser Phe Asp Ser Ser Gly Lys Leu Ile Cys Ser Arg Thr Thr
210          245          250          255
211 Gly Tyr Gln Ile Leu Thr Leu Glu Lys Asp Gln Glu Gln Val Val
212          260          265          270
213 Met Asn Leu Asp Ser Arg Leu Leu Ile Phe Pro Leu Tyr Ile Cys
214          275          280          285
215 Cys Asn Phe Leu Tyr Ile Ser Pro Glu Lys Lys Asn
216          290          295
217 <210> SEQ ID NO: 5
218 <211> LENGTH: 184
219 <212> TYPE: PRT
220 <213> ORGANISM: Homo sapiens
W--> 221 <220> FEATURE:
222 <221> NAME/KEY: misc_feature
223 <223> OTHER INFORMATION: Incyte ID No: 1558289CD1
W--> 224 <400> SEQUENCE: 5
225 Met Glu Ser Phe Ser Ser Lys Ser Leu Ala Leu Gln Ala Glu Lys
226 1 5 10 15
227 Lys Leu Leu Ser Lys Met Ala Gly Arg Ser Val Ala His Leu Phe
228 20 25 30
229 Ile Asp Glu Thr Ser Ser Glu Val Leu Asp Glu Leu Tyr Arg Val
230 35 40 45
231 Ser Lys Glu Tyr Thr His Ser Arg Pro Gln Ala Gln Arg Val Ile
232 50 55 60
233 Lys Asp Leu Ile Lys Val Ala Ile Lys Val Ala Val Leu His Arg
234 65 70 75
235 Asn Gly Ser Phe Gly Pro Ser Glu Leu Ala Leu Ala Thr Arg Phe
236 80 85 90
237 Arg Gln Lys Leu Arg Gln Gly Ala Met Thr Ala Leu Ser Phe Gly
238 95 100 105
239 Glu Val Asp Phe Thr Phe Glu Ala Ala Val Leu Ala Gly Leu Leu
240 110 115 120

```

Use of n and/or Xaa has been detected in the Sequence Listing.  
 Review the Sequence Listing to insure a corresponding  
 explanation is presented in the <220> to <223> fields of  
 each sequence using n or Xaa.

## VERIFICATION SUMMARY

DATE: 02/13/2002

PATENT APPLICATION: US/10/031,915

TIME: 07:37:09

Input Set : A:\PF-0722 PCT (sequence listing).txt

Output Set: N:\CRF3\02132002\J031915.raw

L:15 M:283 W: Missing Blank Line separator, <120> field identifier  
L:16 M:283 W: Missing Blank Line separator, <130> field identifier  
L:17 M:283 W: Missing Blank Line separator, <140> field identifier  
L:17 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:20 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
L:21 M:283 W: Missing Blank Line separator, <160> field identifier  
L:23 M:283 W: Missing Blank Line separator, <210> field identifier  
L:27 M:283 W: Missing Blank Line separator, <220> field identifier  
L:30 M:283 W: Missing Blank Line separator, <400> field identifier  
L:55 M:283 W: Missing Blank Line separator, <220> field identifier  
L:58 M:283 W: Missing Blank Line separator, <400> field identifier  
L:109 M:283 W: Missing Blank Line separator, <220> field identifier  
L:112 M:283 W: Missing Blank Line separator, <400> field identifier  
L:173 M:283 W: Missing Blank Line separator, <220> field identifier  
L:176 M:283 W: Missing Blank Line separator, <400> field identifier  
L:221 M:283 W: Missing Blank Line separator, <220> field identifier  
L:224 M:283 W: Missing Blank Line separator, <400> field identifier  
L:255 M:283 W: Missing Blank Line separator, <220> field identifier  
L:258 M:283 W: Missing Blank Line separator, <400> field identifier  
L:287 M:283 W: Missing Blank Line separator, <220> field identifier  
L:290 M:283 W: Missing Blank Line separator, <400> field identifier  
L:375 M:283 W: Missing Blank Line separator, <220> field identifier  
L:378 M:283 W: Missing Blank Line separator, <400> field identifier  
L:445 M:283 W: Missing Blank Line separator, <220> field identifier  
L:448 M:283 W: Missing Blank Line separator, <400> field identifier  
L:489 M:283 W: Missing Blank Line separator, <220> field identifier  
L:492 M:283 W: Missing Blank Line separator, <400> field identifier  
L:531 M:283 W: Missing Blank Line separator, <220> field identifier  
L:534 M:283 W: Missing Blank Line separator, <400> field identifier  
L:611 M:283 W: Missing Blank Line separator, <220> field identifier  
L:614 M:283 W: Missing Blank Line separator, <400> field identifier  
L:641 M:283 W: Missing Blank Line separator, <220> field identifier  
L:644 M:283 W: Missing Blank Line separator, <400> field identifier  
L:721 M:283 W: Missing Blank Line separator, <220> field identifier  
L:724 M:283 W: Missing Blank Line separator, <400> field identifier  
L:751 M:283 W: Missing Blank Line separator, <220> field identifier  
L:754 M:283 W: Missing Blank Line separator, <400> field identifier  
L:787 M:283 W: Missing Blank Line separator, <220> field identifier  
L:790 M:283 W: Missing Blank Line separator, <400> field identifier  
L:819 M:283 W: Missing Blank Line separator, <220> field identifier  
L:822 M:283 W: Missing Blank Line separator, <400> field identifier  
L:849 M:283 W: Missing Blank Line separator, <220> field identifier  
L:852 M:283 W: Missing Blank Line separator, <400> field identifier  
L:891 M:283 W: Missing Blank Line separator, <220> field identifier  
L:894 M:283 W: Missing Blank Line separator, <400> field identifier  
L:965 M:283 W: Missing Blank Line separator, <220> field identifier  
L:968 M:283 W: Missing Blank Line separator, <400> field identifier

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DATE: 02/13/2002

PATENT APPLICATION: US/10/031,915

TIME: 07:37:09

Input Set : A:\PF-0722 PCT (sequence listing).txt

Output Set: N:\CRF3\02132002\J031915.raw

L:1011 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1014 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1077 M:283 W: Missing Blank Line separator, <220> field identifier  
L:1080 M:283 W: Missing Blank Line separator, <400> field identifier  
L:1103 M:283 W: Missing Blank Line separator, <220> field identifier  
L:4952 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95  
L:5176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99  
L:5177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99